

Sequence Listing

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<120> METHODS FOR MAKING APO-2 LIGAND USING DIVALENT METAL IONS

<130> P1761R1

<141> 2000-06-26

<150> US 60/141,342

<151> 1999-06-28

<160> 7

<210> 1

<211> 281

<212> PRT

<213> Homo sapiens

<400> 1

Met	Ala	Met	Met	Glu	Val	Gln	Gly	Gly	Pro	Ser	Leu	Gly	Gln	Thr
1				5					10					15

Cys	Val	Leu	Ile	Val	Ile	Phe	Thr	Val	Leu	Leu	Gln	Ser	Leu	Cys
				20					25					30

Val	Ala	Val	Thr	Tyr	Val	Tyr	Phe	Thr	Asn	Glu	Leu	Lys	Gln	Met
				35					40					45

Gln	Asp	Lys	Tyr	Ser	Lys	Ser	Gly	Ile	Ala	Cys	Phe	Leu	Lys	Glu
				50					55					60

Asp	Asp	Ser	Tyr	Trp	Asp	Pro	Asn	Asp	Glu	Glu	Ser	Met	Asn	Ser
				65					70					75

Pro	Cys	Trp	Gln	Val	Lys	Trp	Gln	Leu	Arg	Gln	Leu	Val	Arg	Lys
				80					85					90

Met	Ile	Leu	Arg	Thr	Ser	Glu	Glu	Thr	Ile	Ser	Thr	Val	Gln	Glu
				95					100					105

Lys	Gln	Gln	Asn	Ile	Ser	Pro	Leu	Val	Arg	Glu	Arg	Gly	Pro	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

110	115	120
Arg Val Ala Ala His Ile Thr Gly Thr	Arg Gly Arg Ser Asn Thr	
125	130	135
Leu Ser Ser Pro Asn Ser Lys Asn Glu	Lys Ala Leu Gly Arg Lys	
140	145	150
Ile Asn Ser Trp Glu Ser Ser Arg Ser	Gly His Ser Phe Leu Ser	
155	160	165
Asn Leu His Leu Arg Asn Gly Glu Leu	Val Ile His Glu Lys Gly	
170	175	180
Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr	Phe Arg Phe Gln Glu Glu	
185	190	195
Ile Lys Glu Asn Thr Lys Asn Asp Lys	Gln Met Val Gln Tyr Ile	
200	205	210
Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro	Ile Leu Leu Met Lys Ser	
215	220	225
Ala Arg Asn Ser Cys Trp Ser Lys Asp	Ala Glu Tyr Gly Leu Tyr	
230	235	240
Ser Ile Tyr Gln Gly Gly Ile Phe Glu	Leu Lys Glu Asn Asp Arg	
245	250	255
Ile Phe Val Ser Val Thr Asn Glu His	Leu Ile Asp Met Asp His	
260	265	270
Glu Ala Ser Phe Phe Gly Ala Phe Leu	Val Gly	
275	280	

<210> 2

<211> 1042

<212> DNA

<213> Homo sapiens

<220>

<221> VARIATION

<222> 447

<223> N CAN BE T OR G

<400> 2

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tggaggtcca ggggggaccc agcctgggac agacctgcgt gctgatcgtg 150

atcttcacag tgctcctgca gtctctctgt gtggctgtaa cttacgtgta 200
 ctttaccaac gagctgaagc agatgcagga caagtactcc aaaagtggca 250
 ttgcttggtt cttaaaagaa gatgacagtt attgggaccc caatgacgaa 300
 gagagtatga acagcccctg ctggcaagtc aagtggcaac tccgtcagct 350
 cgttagaaag atgattttga gaacctctga ggaaaccatt tctacagttc 400
 aagaaaagca acaaaatatt tctcccctag tgagagaaaag aggtccncag 450
 agagtagcag ctcacataac tgggaccaga ggaagaagca acacattgtc 500
 ttctccaaac tccaagaatg aaaaggctct gggccgcaaa ataaactcct 550
 gggaatcatc aaggagtggg cattcattcc tgagcaactt gcacttgagg 600
 aatggtgaac tggatcatcca tgaaaaaggg ttttactaca tctattccca 650
 aacatacttt cgatttcagg aggaaataaa agaaaacaca aagaacgaca 700
 aacaaatggt ccaatatatt taaaaatata caagttatcc tgacctata 750
 ttgttgatga aaagtgctag aaatagttgt tggctctaaag atgcagaata 800
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 acagaatttt tgtttctgta acaaatgagc acttgataga catggaccat 900
 gaagccagtt ttttcggggc ctttttagtt ggctaactga cctggaaaga 950
 aaaagcaata acctcaaagt gactattcag ttttcaggat gatacactat 1000
 gaagatgttt caaaaaatct gacccaaaaca aacaaacaga aa 1042

<210> 3

<211> 144

<212> PRT

<213> Homo sapiens

<400> 3

Lys	Pro	Ala	Ala	His	Leu	Ile	Gly	Asp	Pro	Ser	Lys	Gln	Asn	Ser
1				5					10					15

Leu	Leu	Trp	Arg	Ala	Asn	Thr	Asp	Arg	Ala	Phe	Leu	Gln	Asp	Gly
				20					25					30

Phe	Ser	Leu	Ser	Asn	Asn	Ser	Leu	Leu	Val	Pro	Thr	Ser	Gly	Ile
				35					40					45

Tyr	Phe	Val	Tyr	Ser	Gln	Val	Val	Phe	Ser	Gly	Lys	Ala	Tyr	Ser	
				50					55					60	
Pro	Lys	Ala	Thr	Ser	Ser	Pro	Leu	Tyr	Leu	Ala	His	Glu	Val	Gln	
				65					70					75	
Leu	Phe	Ser	Ser	Gln	Tyr	Pro	Phe	His	Val	Pro	Leu	Leu	Ser	Ser	
				80					85					90	
Gln	Lys	Met	Val	Tyr	Pro	Gly	Leu	Gln	Glu	Pro	Trp	Leu	His	Ser	
				95					100					105	
Met	Tyr	His	Gly	Ala	Ala	Phe	Gln	Leu	Thr	Gln	Gly	Asp	Gln	Leu	
				110					115					120	
Ser	Thr	His	Thr	Asp	Gly	Ile	Pro	His	Leu	Val	Leu	Ser	Pro	Ser	
				125					130					135	
Thr	Val	Phe	Phe	Gly	Ala	Phe	Ala	Leu							
				140											

<210> 4
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 4															
Lys	Pro	Val	Ala	His	Val	Val	Ala	Asn	Pro	Gln	Ala	Glu	Gly	Gln	
1				5					10					15	
Leu	Gln	Trp	Leu	Asn	Arg	Arg	Ala	Asn	Ala	Leu	Leu	Ala	Asn	Gly	
				20					25					30	
Val	Glu	Leu	Arg	Asp	Asn	Gln	Leu	Val	Val	Pro	Ser	Glu	Gly	Leu	
				35					40					45	
Tyr	Leu	Ile	Tyr	Ser	Gln	Val	Leu	Phe	Lys	Gly	Gln	Gly	Cys	Pro	
				50					55					60	
Ser	Thr	His	Val	Leu	Leu	Thr	His	Thr	Ile	Ser	Arg	Ile	Ala	Val	
				65					70					75	
Ser	Tyr	Gln	Thr	Lys	Val	Asn	Leu	Leu	Ser	Ala	Ile	Lys	Ser	Pro	
				80					85					90	
Cys	Gln	Arg	Glu	Thr	Pro	Glu	Gly	Ala	Glu	Ala	Lys	Pro	Trp	Tyr	
				95					100					105	
Glu	Pro	Ile	Tyr	Leu	Gly	Gly	Val	Phe	Gln	Leu	Glu	Lys	Gly	Asp	
				110					115					120	

Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala
125 130 135

Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
140 145

<210> 5

<211> 141

<212> PRT

<213> Homo sapiens

<400> 5

Gln Ile Ala Ala His Val Ile Ser Glu Ala Ser Ser Lys Thr Thr
1 5 10 15

Ser Val Leu Gln Trp Ala Glu Lys Gly Tyr Tyr Thr Met Ser Asn
20 25 30

Asn Leu Val Thr Leu Glu Asn Gly Lys Gln Leu Thr Val Lys Arg
35 40 45

Gln Gly Leu Tyr Tyr Ile Tyr Ala Gln Val Thr Phe Cys Ser Asn
50 55 60

Arg Glu Ala Ser Ser Gln Ala Pro Phe Ile Ala Ser Leu Cys Leu
65 70 75

Lys Ser Pro Gly Arg Phe Glu Arg Ile Leu Leu Arg Ala Ala Asn
80 85 90

Thr His Ser Ser Ala Lys Pro Cys Gly Gln Gln Ser Ile His Leu
95 100 105

Gly Gly Val Phe Glu Leu Gln Pro Gly Ala Ser Val Phe Val Asn
110 115 120

Val Thr Asp Pro Ser Gln Val Ser His Gly Thr Gly Phe Thr Ser
125 130 135

Phe Gly Leu Leu Lys Leu
140

<210> 6

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6

Arg Lys Val Ala His Leu Thr Gly Lys Ser Asn Ser Arg Ser Met
1 5 10 15

Pro	Leu	Glu	Trp	Glu	Asp	Thr	Tyr	Gly	Ile	Val	Leu	Leu	Ser	Gly	20	25	30
Val	Lys	Tyr	Lys	Lys	Gly	Gly	Leu	Val	Ile	Asn	Glu	Thr	Gly	Leu	35	40	45
Tyr	Phe	Val	Tyr	Ser	Lys	Val	Tyr	Phe	Arg	Gly	Gln	Ser	Cys	Asn	50	55	60
Asn	Leu	Pro	Leu	Ser	His	Lys	Val	Tyr	Met	Arg	Asn	Ser	Lys	Tyr	65	70	75
Pro	Gln	Asp	Leu	Val	Met	Met	Glu	Gly	Lys	Met	Met	Ser	Tyr	Cys	80	85	90
Thr	Thr	Gly	Gln	Met	Trp	Ala	Arg	Ser	Ser	Tyr	Leu	Gly	Ala	Val	95	100	105
Phe	Asn	Leu	Thr	Ser	Ala	Asp	His	Leu	Tyr	Val	Asn	Val	Ser	Glu	110	115	120
Leu	Ser	Leu	Val	Asn	Phe	Glu	Glu	Ser	Gln	Thr	Phe	Phe	Gly	Leu	125	130	135

Tyr Lys

<210> 7

<211> 152

<212> PRT

<213> Homo sapiens

<400> 7

Gln	Pro	Phe	Ala	His	Leu	Thr	Ile	Asn	Ala	Thr	Asp	Ile	Pro	Ser	1	5	10	15
Gly	Ser	His	Lys	Val	Ser	Leu	Ser	Ser	Trp	Tyr	His	Asp	Arg	Gly	20	25	30	
Trp	Ala	Lys	Ile	Ser	Asn	Met	Thr	Phe	Ser	Asn	Gly	Lys	Leu	Ile	35	40	45	
Val	Asn	Gln	Asp	Gly	Phe	Tyr	Tyr	Leu	Tyr	Ala	Asn	Ile	Cys	Phe	50	55	60	
Arg	His	His	Glu	Thr	Ser	Gly	Asp	Leu	Ala	Thr	Glu	Tyr	Leu	Gln	65	70	75	
Leu	Met	Val	Tyr	Val	Thr	Lys	Thr	Ser	Ile	Lys	Ile	Pro	Ser	Ser	80	85	90	

His Thr Leu Met Lys Gly Gly Ser Thr Lys Tyr Trp Ser Gly Asn
95 100 105

Ser Glu Phe His Phe Tyr Ser Ile Asn Val Gly Gly Phe Phe Lys
110 115 120

Leu Arg Ser Gly Glu Glu Ile Ser Ile Glu Val Ser Asn Pro Ser
125 130 135

Leu Leu Asp Pro Asp Gln Asp Ala Thr Tyr Phe Gly Ala Phe Lys
140 145 150

Val Arg